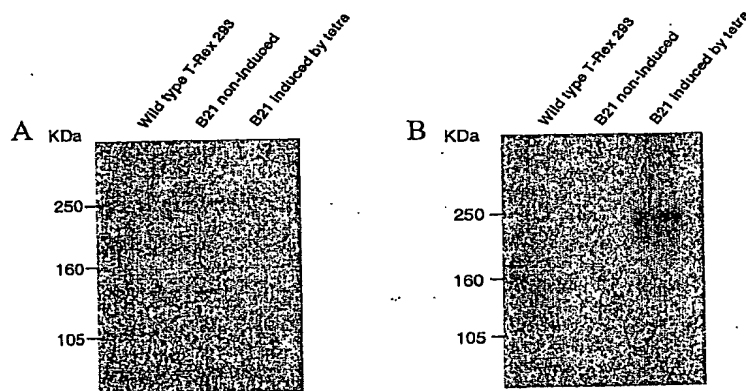


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FIGURE 1

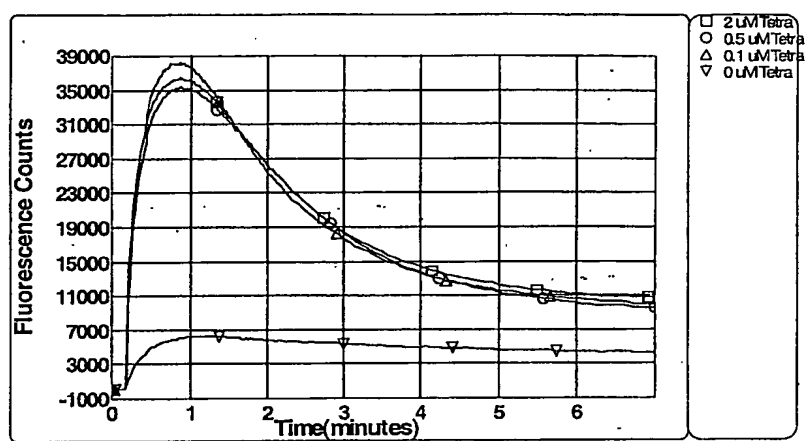
Western blot for alpha 1 I peptide-antibody (#732) in alpha 1I stable cell line.

Protein samples (20  $\mu$ g/lane) prepared from the wild type T-Rex, non-induced B21 and induced B21 cells. (A) Preimmune control rabbit serum (1:500) (B) A protein band of approximately 240 kDa was recognized by human  $\alpha$ 1I antisera (1:500) in  $\alpha$ 1I transfected cells (B21) induced by 0.1  $\mu$ M tetracycline.



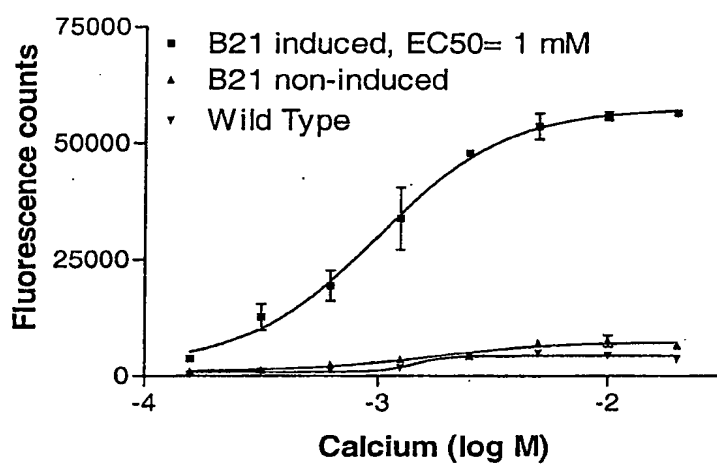
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FIGURE 2

Time course of calcium influx after addition of 5mM calcium in B21 cells



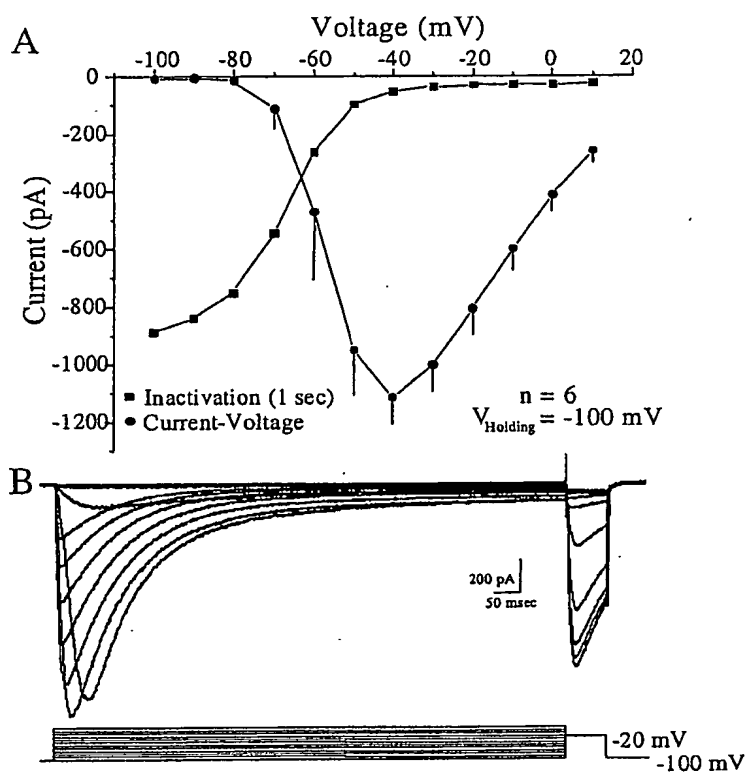
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FIGURE 3

Calcium influx in wild type cells and B21 cells



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FIGURE 4

Electrophysiological characterization of the  $\alpha 1I$  channel activation and inactivation properties when expressed the T-Rex cell line.



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FIGURE 5 $\alpha$ 1I-1 and  $\alpha$ 1I-2 Amino Acid Sequence Alignment

	481	560
$\alpha$ 1I-1	AKEPRHYQLCPQHSPLDATPHTLVQPIPATLASDPASCPCCQHEDGRRPSSGLGSTDGSGQEGSGSGSSAGGEDEADGDGAR	
$\alpha$ 1I-2	AKEPRHYQLCPQHSPLDATPHTLVQPIPATLASDPASCPCCQHEDGRRPSSGLGSTDGSGQEGSGSGSSAGGEDEADGDGAR	
	561	640
$\alpha$ 1I-1	SSEDGASSELGKEEEEEQADGAVWLCGDVWRETRAKLRGIVDSKYFNRGIMMAILVNTVSMGIEHHEQPEELTNILEIC	
$\alpha$ 1I-2	SSEDGASSELGKEEEEEQADGAVWLCGDVWRETRAKLRGIVDSKYFNRGIMMAILVNTVSMGIEHHEQPEELTNILEIC	
	641	720
$\alpha$ 1I-1	NVVFTSMFALEMILKLAAGLFDYLRNPYNIFDSIIIVII-----SIWEIVGQADGGLSVLRTFRLLR	
$\alpha$ 1I-2	NVVFTSMFALEMILKLAAGLFDYLRNPYNIFDSIIIVIRPPTAASYLYPGPALRDRSIWEIVGQADGGLSVLRTFRLLR	
	721	800
$\alpha$ 1I-1	VLKLVREMPALRRQLVVLTKTMDNVATFCMLLMLFIFIFSILGMHIFGCKFSLRTDTGDTVPDRKNFDSLLWAIIVTFQI	
$\alpha$ 1I-2	VLKLVREMPALRRQLVVLTKTMDNVATFCMLLMLFIFIFSILGMHIFGCKFSLRTDTGDTVPDRKNFDSLLWAIIVTFQI	

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FIGURE 6 $\alpha$ 1I-1 and  $\alpha$ 1I-2 DNA Sequence Alignment

	2161		2240
$\alpha$ 1I-1	GGTCTGGCTGTGCGGGGATGTGTGGCGGGAGACGCGAGCCAAGCTGCGCGGCATCGTGGACAGCAAGTACTTCAACCGGG		
$\alpha$ 1I-2	GGTCTGGCTGTGCGGGGATGTGTGGCGGGAGACGCGAGCCAAGCTGCGCGGCATCGTGGACAGCAAGTACTTCAACCGGG		
	2241		2320
$\alpha$ 1I-1	GCATCATGATGGCCATCCTGGTCAACACCGTCAGCATGGGCATCGAGCACCACGAGCAGCCGGAGGAGCTGACCAACATC		
$\alpha$ 1I-2	GCATCATGATGGCCATCCTGGTCAACACCGTCAGCATGGGCATCGAGCACCACGAGCAGCCGGAGGAGCTGACCAACATC		
	2321		2400
$\alpha$ 1I-1	CTGGAGATCTGCAATGTGGTCTTCACCAGCATGTTTGCCCTGGAGATGATCCTGAAGCTGGCTGCATTGGGGCTCTTCGA		
$\alpha$ 1I-2	CTGGAGATCTGCAATGTGGTCTTCACCAGCATGTTTGCCCTGGAGATGATCCTGAAGCTGGCTGCATTGGGGCTCTTCGA		
	2401		2480
$\alpha$ 1I-1	CTACCTGCGTAACCCCTACAACATCTTCGACAGCATCATTTGTCATCATCAG-----		
$\alpha$ 1I-2	CTACCTGCGTAACCCCTACAACATCTTCGACAGCATCATTTGTCATCATCAGGCCTCCTACTGCTGCCTCCTACCTGTACC		
	2481		2560
$\alpha$ 1I-1	-----CATCTGGGAGATCGTGGGCGAGGCGGACGGTGGGCTGTCGGTGTGCGGACCTTC		
$\alpha$ 1I-2	CTGGGCCTGCCCTGCGGGACCGCAGCATCTGGGAGATCGTGGGCGAGGCGGACGGTGGGCTGTCGGTGTGCGGACCTTC		
	2561		2640
$\alpha$ 1I-1	CGGCTGCTGCGCGTGCTGAAACTGGTGCGCTTCATGCCCTGCCCTGCGGCGCCAGCTCGTGGTGCTCATGAAGACCATGGA		
$\alpha$ 1I-2	CGGCTGCTGCGCGTGCTGAAACTGGTGCGCTTCATGCCCTGCCCTGCGGCGCCAGCTCGTGGTGCTCATGAAGACCATGGA		